Amendments to the Claims:

1. (Original) A deep hole cutter comprising:

a tool shank including a front connecting part at the front end thereof;

the tool shank having a coolant supply passage formed longitudinally therein;

the tool shank further having a first outer discharge groove formed longitudinally thereof, the first discharge groove V-shaped in radial section; and

a cutting head including a rear connecting part at the rear end thereof for coaxial and detachable connection with the front connecting part of the tool shank;

the cutting head having a coolant supply bore formed therein, the supply bore communicating with the supply passage when the cutting head is connected to the tool shank:

the cutting head further having a second outer discharge groove V-shaped in radial section, the second discharge groove aligned linearly with the first discharge groove when the cutting head is connected to the tool shank;

the cutting head further having a discharge port formed in the front end thereof substantially diametrically opposite the second discharge groove, the discharge port opening in the peripheral surface of the cutting head;

the cutting head further having a bypass passage formed therein between the discharge port and the second discharge groove:

the cutting head further having a plurality of cutting edges formed on the front end thereof, at least one of the cutting edges facing the second discharge groove, at least one other of the cutting edges facing the discharge port;

the cutting head further having a first outlet port and a second outlet port both formed in the front end thereof and each positioned substantially diametrically opposite the other, the outlet ports communicating with the supply bore.

2. (Original) A deep hole cutter as claimed in Claim 1, wherein the first and second outlet ports are adjacent to the leading sides of the second discharge groove and the discharge port, respectively, the cutting head having a first coolant guide recess and a second coolant guide recess both formed in the front end thereof;

the first guide recess extending between the front end of the second discharge groove and the first outlet port;

the second guide recess extending between the discharge port and the second outlet port.

- 3. (Currently Amended) A deep hole cutter as claimed in Claim 1 or 2, wherein the cutting edges are:
 - a central cutting edge adjacent to the second discharge groove;
 - a peripheral cutting edge adjacent to the second discharge groove; and an intermediate cutting edge adjacent to the discharge port.
- 4. (Currently Amended) A deep hole cutter as claimed in any one of Claims 1 3 Claim 1, wherein the tool shank comprises:

a shank body including a driver that can be rotated and a front connecting part at the front end thereof; and

a connecting shaft including a rear connecting part at the rear end thereof for coaxial and detachable connection with the front connecting part of the shank body and a front connecting part at the front end thereof for coaxial and detachable connection with the rear connecting part of the cutting head.

- 5. (Original) A deep hole cutter as claimed in Claim 4, wherein the front connecting parts of the shank body and the connecting shaft are identical in size and shape, and wherein the rear connecting parts of the connecting shaft and the cutting head are identical in size and shape.
- 6. (Currently Amended) A deep hole cutter as claimed in any one of Claims 1 5 Claim 1, wherein the front and rear connecting parts are:

at least one tubular part having a female square thread formed therein;

at least one root having a male square thread formed thereon.

7. (Original) A deep hole cutter as claimed in Claim 6, wherein the tubular part is fitted with an insert in the bottom thereof to fill the space inside the unthreaded bottom portion thereof so that one end of the root can be in close contact with the insert.

A deep hole cutter as claimed in any one of 8. (Currently Amended)

Claims 1 – 5 Claim 1, wherein the front connecting part of the tool shank includes

a circumferential stage and a key both formed thereon, and wherein the rear

connecting part of the cutting head has a circumferential groove and a key groove

both formed therein;

the circumferential stage and groove being engageable with each other so

as to prevent the tool shank and the cutting head from moving axially relative to

each other:

the key and the key groove being engageable with each other so as to

prevent the tool shank and the cutting head from rotating relative to each other.

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